

It thus gives final and conclusive evidence that the western forest-fauna extends right across the centre of Africa in this direction at least as far as 28° east longitude, and slightly further to the north, judging by the few specimens from Makraka, as far as 30° E. This is, in fact, quite to the extreme limit of the Congo basin, the watershed apparently here abruptly dividing the two faunas, the few Wadelai and Lado specimens showing no trace whatever of any West-African affinity.

The abruptness with which the change of fauna occurs on the watershed is, considering the insignificant nature of the physical barriers, very remarkable, and almost unequalled in the distribution of the mammals of any part of the world. The reason of the change is, however, clear enough, being not the occurrence of such barriers to migration as mountains or rivers, but the abrupt ending of the great West-African forest, which, as we know from the travels of Schweinfurth and others, extends quite into this region, but abruptly ceases before the slopes of the Upper Nile basin are reached.

Finally, I may express the hope that this valuable and interesting collection may be succeeded by others from the same quarter, and that I, or some more competent person, may have the opportunity of drawing up a mammal-fauna of the Wadelai district itself, and of further adding to our knowledge of the mammals inhabiting the rich region tapped by Emin Pasha, whenever he crosses to the west of the Congo-Nile watershed.

2. On a Collection of Birds made by Emin Pasha in Equatorial Africa. By Captain G. E. SHELLEY, F.Z.S.

[Received January 13, 1888.]

(Plate III.)

It is several months since letters were received from Emin Pasha announcing the despatch of some cases of natural-history specimens from Wadelai, and their receipt has been a source of the greatest satisfaction to the authorities of the British Museum, knowing the troubles which have been going on in Uganda, by which route the collections were to be despatched to Zanzibar. No slight apprehensions were entertained as to their detention in that country, and it seemed almost hopeless to expect their safe arrival on the coast. That they did so arrive is doubtless due to the exertions of the Rev. Mr. Mackay, and he will surely receive the thanks of every naturalist for the care with which he has managed to send the collection home.

The birds now sent by Emin Pasha evidently belong to two categories. Many of them have been collected about the stations of Lado and Wadelai, and most of these species have been described by Dr. Hartlaub in one of the papers mentioned below. At the same

time there are many examples of species obtained on the Pasha's last expedition to the shores of the Albert Nyanza and the Moubuttu country, and these are most interesting. We have no map to show the last researches of Emin Pasha in this district, and therefore some little time may elapse before all the places mentioned in this paper are identified; but the peculiar nature of the avifauna is manifest. The collection is of the same character as that of Mr. Bohndorff's from the Niam-niam country, and, as pointed out by Mr. Bowdler Sharpe, is *West African*.

On the western watershed of the lake-system of Equatorial Africa the Abyssinian fauna disappears and is replaced by the purely tropical features of the West-African river-system: thus we find in Emin Pasha's collection examples of such genera as *Indicator*, *Pyrenestes*, and *Spermospiza*, purely West-African in character. To point out the limits of these two diverse zoo-geographical areas will be the work of an observer on the spot, and it is to be hoped that Emin Pasha may be gifted with health for many years to come to finish the work he has so well begun.

This is the first consignment which the British Museum has received from the Lado district, and it adds a large number of species to the collection, besides the types of the four following new species:—*Indicator emini*, *Spermospiza ruficapilla*, *Ploceus castanops*, and *Glareola emini*. The further researches of the traveller in the region of the Albert Nyanza will be awaited with eagerness.

In my present notes on this collection I have referred to the following papers, which deal with the former collections of Emin Pasha:—

1. "Beitrag zur Ornithologie der östlich-äquatorialen Gebiete Afrika's. Von Dr. G. Hartlaub, nach Sendlungen und Noten von Dr. Emin Bey in Lado." Abhandl. nat. Ver. Brem. vii. pp. 83, 128, pl. 5.
2. "Ueber eine Sendung von Vögeln aus Central-Afrika. Von August von Pelzeln." Verhandl. zool.-bot. Ges. Wien, xxxi. pp. 141–156.
3. In the same volume pp. 605–618, is another article by Herr von Pelzeln entitled "Ueber Dr. Emin Bey's zweite Sendung von Vögeln aus Central-Afrika."
4. In the next volume, pp. 499–512, is another article on Emin Pasha's birds:—"Ueber Dr. Emin Bey's dritte Sendung von Vögeln aus Central-Afrika."
5. Dr. Hartlaub, in his "Zweiter Beitrag zur Ornithologie der östlich-äquatorialen Gebiete Afrika's," Abhandl. nat. Ver. Brem. viii. 1882, pp. 184, 232, gives an enlarged map of Lado and the country for about 100 miles to the south-east. This paper includes a list of 276 species as having up to this time been procured by Emin Pasha, also many of the collector's original notes, amongst which are the latitudes and longitudes of some 17 of the little-known localities mentioned. I much regret that I have not been able to continue this useful portion

of the work ; but I trust we may not have long to wait before an accurate map of the little-known district may be published under the auspices of Emin Pasha, who we all hope will soon return safely to Europe after the arduous and important duties he has so ably performed during many years in the Upper White Nile district.

In my present list I have followed, as closely as I considered advisable, the order of the species adopted by Dr. Hartlaub, and have given references, not only to all the above-mentioned papers, but also to Mr. R. B. Sharpe's "Notes on a Collection of Birds made by Herr F. Bohndorff in the Bahr el Gazel Province and the Nyam-nyam Country in Equatorial Africa," published in the *Linnean Society's Journal (Zool.)*, xvii. 1884, pp. 419-441. I have also thought it advisable to give what I have considered to be the most important references for the identification of each species.

I should like, in conclusion, to state that this collection has been entirely worked out in the Bird-room of the Natural History Museum, where I have found every convenience for regular study, with the finest collection in the world before me, which, owing to Mr. Bowdler Sharpe's untiring energy, is now as accessible for work as any small private collection, with this further advantage, that very few species are wanting, and generally a good series of specimens is available. I trust that these remarks may not lead to an overwhelming influx of ornithological students to the bird-room, for Mr. Sharpe's sake ; but even then I believe that his courtesy would be equal to the task, as I presume that there is nothing which would please him more than to find the British Museum the centre of all ornithological study, as it ought to have been years ago, and as it most certainly was *not* in former days.

Emin Pasha's consignment consists of two very distinct collections : one from what I shall call the Wadelai district, including Lado, Redjaf, Kiri, Tobbo, Wadelai, and Kiberi, comprised within the limits of 2° and 5° N. lat., and 31° and 33° E. long ; the other is from the Tingasi district, including Bellima, Tomaja, and Tingasi, extending westward of 31°, and comprising portion of the Monbuttu country.

Comparing these two collections we find :—

Wadelai collection :—114 species, 10 local, 1 W.-African, 27 N.E.-African, 6 E.-African.

Tingasi collection :—43 species, 3 local, 27 W.-African, *none* N.E.-African, *none* E.-African.

From the above it is evident that the Wadelai district belongs to the great N.E.-African or Abyssinian Region, and the Tingasi district to the W.-African Region ; and on regarding the close proximity of these districts, the fact of the fauna of a continent following its great watersheds and forests is strikingly exhibited, and the presence of an almost impassable barrier is suggested. Thus physical geography and ornithology lend each other a friendly hand in the elucidation of scientific problems.

I. PASSERES.

1. SYLVIA HORTENSIS, Bechst.

Sylvia hortensis, Seebohm, Cat. B. Brit. Mus. v. p. 10; Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 95.

No. 23. ♂. Tingasi, Sept. 20, 1883.

No. 194. ♂. Kibero, Oct. 8, 1886.

2. PHYLLOSCOPUS TROCHILUS (Linn.).

Phylloscopus trochilus, Seebohm, Cat. B. Brit. Mus. v. p. 56.

Phyllopneuste trochilus, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 94, 1882, p. 193.

♂. Lado, Oct. 19, 1885.

No. 128. Wadelai, Sept. 14, 1885.

No. 173. ♂. Wadelai, Oct. 18, 1885.

3. HYPOLAIS PALLIDA (Hempr. & Ehr.).

Hypolais pallida, Seebohm, Cat. B. Brit. Mus. v. p. 82; Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 193; Pelz. Verh. Wien, xxxii. 1882, p. 502.

No. 238. ♂. Lado, March 3, 1884.

No. 915. ♂. Gondokoro, Nov. 16, 1883.

No. 13. ♂. Wadelai, Jan. 15, 1886.

No. 54. ♀. Wadelai, Feb. 2, 1886.

The dates of capture seem to show that this species winters in Equatorial Africa.

4. ACROCEPHALUS PHRAGMITIS (Bechst.).

Acrocephalus phragmitis, Seebohm, Cat. B. Brit. Mus. v. p. 91.

No. 176. ♂. Wadelai, Oct. 29, 1885.

5. RUTICILLA PHÆNICURUS (Linn.).

Ruticilla phænicurus, Seebohm, Cat. B. Brit. Mus. v. p. 336; Hartl. Zool. Jahrb. ii. 1886, p. 319.

No. 949. ♂. Redjaf, Dec. 1, 1883.

♀. Foda, Oct. 21, 1885.

6. PRATINCOLA RUBETRA (Linn.).

Pratincola rubetra, Sharpe, Cat. B. Brit. Mus. iv. p. 179; Hartl. Abhandl. nat. Ver. Brem. vii. p. 89.

No. 177. ♂. Redjaf, Feb. 2, 1884.

7. BRADYORNIS PALLIDA (v. Müll.).

Bradyornis pallida, Sharpe, Cat. B. Brit. Mus. iii. p. 310; Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 191.

No. 329. ♀. Nov. 20, 1882.

8. PENTHOLÆA CLERICALIS, Hartl.

Pentholæa clericalis, Hartl. J. f. O. 1882, p. 321; id. Abhandl.

nat. Ver. Brem. viii. 1882, p. 321; Sharpe, Cat. B. Brit. Mus. vii. p. 18; Hartl. Zool. Jahrb. ii. 1886, p. 317, pl. 13. figs. 7 ♂, 8 ♀.

Nos. 557, 569. ♂. Kuterma, May 1883.

No. 530. ♀. Tobbo, May 21, 1883.

A perfectly distinct species, of which Emin Pasha sends three fine adult specimens.

9. COSSYPHA HEUGLINI, Hartl.

Bessornis intermedius, Cab. in V. d. Decken's Reis. iii. p. 32 pl. 12

Cossypha heuglini, Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 187; Sharpe, Cat. B. Brit. Mus. vii. p. 41.

No. 211. ♀. Kibiro, Oct. 11, 1886.

10. COSSYPHA VERTICALIS, Hartl.

Cossypha verticalis, Sharpe, Cat. B. Brit. Mus. vii. p. 45; Hartl. Zool. Jahrb. ii. 1886, p. 313.

No. 822. ♂. Tamaja, Aug. 17, 1883.

This is probably the most eastern locality known for this West-African species.

11. ERYTHROPYGIA RUFICAUDA, Sharpe.

Erythropygia ruficauda, Sharpe, Cat. B. Brit. Mus. vii. p. 78; Hartl. Zool. Jahrb. ii. 1886, p. 316.

Nos. 182, 188, 206. ♂. Kibero, Oct. 1886.

12. EMINIA LEPIDA, Hartl.

Eminia lepida, Hartl. P. Z. S. 1880, p. 625, pl. 60. fig. 1; id. Abhandl. nat. Ver. Brem. vii. 1881, p. 91; id. Zool. Jahrb. ii. 186, p. 334.

Apalis lepida, Sharpe, Cat. B. Brit. Mus. vii. p. 140.

No. 95. ♂. Wadelai, Aug. 17, 1885.

No. 190. ♀. Kibero, Oct. 8, 1886.

The sexes are similar in plumage.

13. DRYMOCICHLA INCANA, Hartl.

Drymocichla incana, Hartl. P. Z. S. 1880, p. 626, pl. 60. fig. 2; id. Abhandl. nat. Ver. Brem. vii. p. 91; Sharpe, Cat. B. Brit. Mus. vii. p. 149.

Nos. 88, 89. ♂ ♀. Wadelai, Aug. 15, 1885.

No. 171. ♀. Wadelai, Oct. 18, 1885.

The sexes are similar in plumage. Neither this species nor the last have been recorded from north of Wadelai.

14. PHYLLOLAIS PULCHELLA (Rüpp.).

Phyllolais pulchella, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 90; viii. 1882, p. 190; Pelz. Verb. Wien, xxxii. 1882, p. 501; Sharpe, Cat. B. Brit. Mus. vii. p. 149.

No. 481. ♂. Lado, Nov. 20, 1884.

15. SYLVIELLA MICROURA (Rüpp.).
Oligocercus rufescens, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 92.
Oligura microura, Pelz. Verh. Wien, xxxi. 1881, p. 144; xxxii. 1882, p. 502.
Sylviella microura, Sharpe, Cat. B. Brit. Mus. vii. p. 154.
 No. 938. ♂. Gondokoro, Nov. 15, 1883.
16. EREMOMELA ELEGANS (Heugl.).
Tricholais elegans, Pelz. Verh. Wien, xxxi. pp. 144, 609; Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 190.
Eremomela elegans, Sharpe, Cat. B. Brit. Mus. vii. p. 163.
 No. 338. ♂. Lado, April 23, 1884.
 Nos. 345, 356. ♂. Redjaf, May 1884.
 No. 975. ♂. Redjaf, Dec. 17, 1885.
a, d. Wadelai, July 7, 1885.
17. CAMAROPTERA BREVICAUDATA (Rüpp.).
Camaroptera brevicaudata, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 90; Pelz. Verh. Wien, xxxi. 1881, p. 144; xxxii. 1882, p. 502; Sharpe, Cat. B. Brit. Mus. vii. p. 168.
 No. 409. ♂. Lado, Aug. 30, 1884.
18. PRINIA MYSTACEA, Rüpp.
Cisticola tenella, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 89; viii. 1882, p. 189.
Drymæca mystacea, Pelz. Verh. Wien, xxxii. 1882, p. 501.
Prinia mystacea, Sharpe, Cat. B. Brit. Mus. vii. p. 191.
 No. 338. Lado, March 28, 1883.
 No. 405. Lado, Aug. 27, 1884.
 No. 85. ♀. Wadelai, Aug. 15, 1885.
 No. 21. ♂. Tingasi, July 19, 1883.
19. BURNESIA LEUCOPOGON (Cab.).
Burnesia leucopogon, Sharpe, Cat. B. Brit. Mus. vii. p. 207.
 Nos. 704, 797. ♂ ♀. July 1883.
 The sexes are similar in plumage. This species was formerly only known from the Congo region in W. Africa, from which country there are two specimens in the British Museum.
20. ORTHOTOMUS ERYTHROPTERUS (Jard.).
Cisticola iodoptera, Heugl. Orn. N.O.-Afr. p. 247.
Orthotomus erythropterus, Sharpe, Cat. B. Brit. Mus. vii. p. 228.
 No. 16. ♂. Tingasi, July 17, 1883.
21. CISTICOLA MENTALIS (Fras.).
Melocichla mentalis, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 93; viii. 1882, p. 191.

Cisticola mentalis, Sharpe, Cat. B. Brit. Mus. vii. p. 241.

No. 152. ♀. Risuo, Oct. 3, 1882.

This specimen agrees perfectly with others from the Gold Coast in the British Museum.

22. *CISTICOLA CINERASCENS*, Heugl.

Drymæca concolor, Heugl. Ibis, 1869, p. 97, pl. 2. fig. 1.

Cisticola concolor, Heugl. Orn. N.O.-Afr. p. 253.

Cisticola cinerascens, Sharpe, Cat. B. Brit. Mus. vii. p. 248.

No. 25. ♂. Tingasi, July 19, 1883.

23. *CISTICOLA LATERALIS* (Fraser).

Cisticola lateralis, Sharpe, Cat. B. Brit. Mus. vii. p. 251.

No. 775. ♂. Abiambana, July 28, 1883.

This species appears hitherto to have been met with only on the west coast of Africa.

24. *CISTICOLA RUFA* (Fraser).

Cisticola hypoxantha, Hartl. P.Z.S. 1880, p. 624; id. Abhandl. nat. Ver. Brem. vii. 1881, p. 89; id. Zool. Jahrb. ii. 1886, p. 332.

Cisticola rufa, Sharpe, Cat. B. Brit. Mus. vii. p. 252.

No. 186. ♂. Tobbo, May 19, 1883.

This specimen agrees perfectly with others in the British Museum from the Gold Coast.

25. *CISTICOLA FERRUGINEA*, Heugl.

Cisticola ferruginea, Heugl. Orn. N.O.-Afr. p. 265; Sharpe, Cat. B. Brit. Mus. vii. p. 257.

No. 28. ♀. Wadelai, July 28, 1885.

Nos. 121, 122, 123. ♂ ♀. Wadelai, Sept. 13, 1885.

No. 55. ♀. Wadelai, Feb. 2, 1886.

The British Museum here receives for the first time a remarkably fine series of this striking little Grass-Warbler.

26. *CISTICOLA MARGINALIS* (Heugl.).

Cisticola marginalis, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 89; Sharpe, Cat. B. Brit. Mus. vii. p. 258.

Cisticola marginata, Pelz. Verh. Wien, xxxii. 1882, p. 501.

No. 287. ♂. Lado, March 31, 1884.

27. *CISTICOLA CISTICOLA* (Temm.).

Cisticola cursitans, Heugl. Orn. N.O.-Afr. p. 266.

Cisticola cisticola, Sharpe, Cat. B. Brit. Mus. vii. p. 259.

No. 113. ♂. Wadelai, June 17, 1886.

28. *CISTICOLA STRANGII* (Fraser).

Cisticola ladoensis, Hartl. *op. cit.* viii. 1882, p. 189.

Cisticola strangei et *C. natalensis*, Sharpe, Cat. B. Brit. Mus. vii. pp. 276, 278.

Nos. 54, 101, 102. ♂ ♀. Wadclai, Aug. 1885.

No. 148. ♂. Wadclai, Oct. 4, 1885.

Nos. 9, 19. Tingasi, July 1883.

I have a specimen in my own collection determined by Dr. Hartlaub as *C. ladoensis*; it is in the plumage of *Drymoica curvirostris*, Sundev. For the determination of *D. strangei*, Fras., 1843, and *D. natalensis*, Smith, 1843, I would refer to the conclusions I drew (*Ibis*, 1875, pp. 380, 381), which I still believe to be correct. As the first names for this species were published in the same year, 1843, I select Fraser's as being the most applicable.

29. *CISTICOLA LUGUBRIS* (Rüpp.).

Cisticola nævia, Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 189; id. Zool. Jahrb. ii. 1886, p. 333.

Cisticola lugubris, Sharpe, Cat. B. Brit. Mus. vii. p. 280.

No. 97. ♂. Wadclai, Aug. 1885.

30. *ARGYA RUBIGINOSA* (Rüpp.).

Argya rubiginosa, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 93; Sharpe, Cat. B. Brit. Mus. vii. p. 391.

No. 494. ♂. Lado, Jan. 12, 1884.

Iris pale yellow.

31. *CRINIGER VERREAUXI*, Sharpe.

Criniger verreauxi, Sharpe, Cat. B. Brit. Mus. vi. p. 73, pl. 4.

No. 671. ♂. Bellima, June 22, 1883.

32. *CHLOROCICHLA GRACILIROSTRIS* (Strickl.).

Chlorocichla gracilirostris, Sharpe, Cat. B. Brit. Mus. vi. p. 114.

No. 697. ♀. Tingasi, July 1, 1883.

This species was formerly only known from the west coast of Africa.

33. *PHYLLOSTROPHUS SHARPII*, Shelley.

? *Criniger strepitans*, Reichen. Orn. Centralbl. 1879, p. 139 (Malindi).

Phyllostrophus sharpii, Shelley, *Ibis*, 1880, p. 334 (Dar-es-Salaam); Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 188.

Phyllostrophus strepitans, Sharpe, Cat. B. Brit. Mus. vi. p. 117.

Nos. 45, 59, 60, 96. ♂ ♀. Wadclai, Aug. 1885.

This is certainly my *P. sharpii*, which Dr. Hartlaub considers to be distinct from the *P. strepitans* (Reichen.), the type of which species neither myself nor Mr. Sharpe have seen.

34. *ANDROPADUS VIRENS*, Cass.

Andropadus virens, Sharpe, Cat. B. Brit. Mus. vi. p. 109; id. Journ. Linn. Soc., Zool. xvii. 1884, p. 424.

No. 18. ♂. Tingasi, July 16, 1883.

No. 50. ♂. Tingasi, Aug. 18, 1883.

This species was first discovered in north-east Equatorial Africa by Herr F. Bohndorff, who procured it at Sassa in the Nyam-nyam country.

35. *TELEPHONUS SENEGALUS* (Linn.).

? *Telephonus erythropterus*, Pelz. Verh. Wien, xxxi. 1881, p. 147; xxxii. 1882, p. 505.

Telephonus senegalus, Gadow, Cat. B. Brit. Mus. viii. p. 124.

No. 360. ♀. Kiri, May 1884.

36. *TELEPHONUS MINUTUS*, Hartl.

Telephonus minutus, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 94; Gadow, Cat. B. Brit. Mus. viii. p. 128.

No. 30. ♀. Wadelai, July 29, 1885.

No. 17. Ad. Wadelai, March 1881.

37. *DRYOSCOPIUS AFFINIS* (Gray).

Dryoscopus affinis, Gadow, Cat. B. Brit. Mus. viii. p. 141.

No. 754. ♂. Bellima, July 15, 1883.

38. *LANIARIUS SULFUREIPECTUS* (Less.).

Dryoscopus sulphureipectus, Hengl. Orn. N.O.-Afr. p. 464.

Laniarius sulfureipectus, Gadow, Cat. B. Brit. Mus. viii. p. 159.

No. 27. ♂. Wadelai, Jan. 19, 1886.

39. *LANIUS GUBERNATOR*, Hartl.

Lanius gubernator, Hartl. J. f. O. 1882, p. 323, pl. 1. fig. 2 ♀; id. Abhandl. nat. Ver. Brem. viii. 1882, p. 194.

No. 572. ♀ juv. Kuterma, May 28, 1882.

No. 110. ♀ ad. Kuterma, Sept. 18, 1882.

This is quite a distinct species.

40. *GRAUCALUS PECTORALIS*, Jard. & Selby.

Graucalus pectoralis, Sharpe, Cat. B. Brit. Mus. iv. p. 29; id. Journ. Linn. Soc., Zool. xvii. 1884, p. 424.

Ad. Tobbo, May 15, 1883.

This is the first time Enim Pasha has sent this bird to Europe, although in Nyam-nyam, according to Mr. Bohndorff, it is a common species.

41. *ALSEONAX COMITATA*, Cass.

Alseonax comitata, Sharpe, Cat. B. Brit. Mus. iv. p. 130.

No. 753. Bellima, July 15, 1883.

The specimen agrees accurately with others from the Gold Coast

with which I have compared it. It was formerly only known from the west coast.

42. *PACHYPRORA SENEGALENSIS* (Linn.).

Batis senegalensis, Sharpe, Cat. B. Brit. Mus. iv. p. 134.

Platystira senegalensis, Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 197; id. Zool. Jahrb. ii. 1886, p. 336.

No. 349. ♂. Kedjaf, May 10, 1884.

No. 598. ♂. Mundi, June 4, 1883.

43. *ARTOMYIAS FULIGINOSUS*, J. & E. Verr.

Artomyias fuliginosus, Sharpe, Cat. B. Brit. Mus. iv. p. 144, fig. 1.

No. 760. ♂. Ann Nambiri, July 21, 1883.

Formerly only known from the Gaboon and Congo districts on the west coast.

44. *PLATYSTIRA CYANEA* (P. L. S. Müll.).

Platystira cyanea, Sharpe, Cat. B. Brit. Mus. iv. p. 145.

Platystira senegalensis, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 97.

No. 788. ♀. Tomaja, Aug. 7, 1883.

45. *MUSCICAPA GRISOLA* (Linn.).

Muscicapa grisola, Sharpe, Cat. B. Brit. Mus. iv. p. 151; Hartl. Abhandl. nat. Ver. Brem. vii. p. 98.

Butalis grisola, Pelz. Verh. Wien, xxxi. 1881, p. 146.

No. 174. ♀. Wadelai, Oct. 10, 1885.

No. 198. ♂. Wadelai, Nov. 12, 1885.

No. 208. ♂. Kabajirdi, Nov. 1, 1882.

46. *MUSCICAPA INFULATA*, Hartl.

Muscicapa infulata, Hartl. P. Z. S. 1880, p. 626; id. Abhandl. nat. Ver. Brem. vii. 1881, p. 98.

Wadelai, four males and four females shot in June, July, and August.

The type was obtained at Magungo, on the northern extremity of Lake Albert Nyanza.

47. *HYLIOTA FLAVIGASTRA*, Swains.

Hyliota flavigastrea, Sharpe, Cat. B. Brit. Mus. iv. p. 248; Hartl. J. f. O. 1883, p. 323.

Hyliota orientalis, Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 198.

No. 31. ♂. Wadelai, Aug. 1, 1885.

Nos. 564, 565. ♂. Kuterma, May 28, 1883.

Nos. 596, 597. ♂ ♀. Hundii, June 4, 1883.

The specimens agree perfectly with a Senegal specimen in the British Museum.

48. *PARISOMA PLUMBEUM* (Hartl.).

Parisoma plumbeum, Sharpe, Cat. B. Brit. Mus. iv. p. 269.

Stenostira plumbea, Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 197.

♀ ad. Wadelai, July 7, 1885.

49. *TERPSIPHONE CRISTATA* (Gm.).

Terpsiphone cristata, Sharpe, Cat. B. Brit. Mus. iv. p. 354; id. Journ. Linn. Soc., Zool. xvii. p. 425.

Tchitreia melanogastra, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 97; viii. 1882, p. 197.

Terpsiphone melanogastra, Pelz. Verh. Wien, xxxi. 1881, p. 146; xxxii. 1882, p. 504.

No. 42. ♂ juv. Tingasi, Aug. 1, 1883.

50. *ELMINIA TERESITA*, Antin.

Elminia longicauda minor, Heugl. Orn. N.O.-Afr. p. 446.

Elminia teresita, Sharpe, Cat. B. Brit. Mus. iv. p. 364.

Ad. Wadelai, Aug. 15, 1885.

This species differs from *E. longicauda* only in having the breast, abdomen, and under tail-coverts pure white, not shaded with greyish blue except on the sides of the chest. The outer pair of tail-feathers have a larger amount of white on the margin of the inner web; the inner web of the next feather has a small amount of white. The blackish colouring in front of the eyes is barely perceptible.

E. teresita: length 6·5 inches, wing 2·7, tail 3·5, tarsus 0·65.

E. longicauda: length 7·3 inches, wing 2·65, tail 4·3, tarsus 0·65.

51. *MEGABIAS FLAMMULATA*, J. & E. Verr.

Megabias flammulata, Sharpe, Cat. B. Brit. Mus. iv. p. 387.

No. 22. ♂. Tingasi, Aug. 1, 1883.

I have little doubt that this is an immature male of this species, as it agrees with an adult female specimen from Fantee in the British Museum.

52. *MOTACILLA FLAVA*, Linn.

Budytes flava, Pelz. Verh. Wien, xxxi. 1881, pp. 145, 609.

Motacilla flava, Sharpe, Cat. B. Brit. Mus. x. p. 516, pl. 6. figs. 3-5.

No. 849. ♂. Lado, Oct. 2, 1883.

53. *ANTHUS PYRRHONOTUS* (Vieill.).

Anthus gouldi, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 99; viii. 1882, p. 198; id. Zool. Jahrb. ii. 1886, p. 337.

? *Anthus sordidus*, Pelz. Verh. Wien, xxxi. 1881, p. 145.

Anthus pyrrhonotus, Sharpe, Cat. B. Brit. Mus. x. p. 555.

No. 164. ♀. Redjaf, Jan. 26, 1884.

54. ANTHUS CERVINUS, Pall.

Anthus cervinus, Heugl. Orn. N.O.-Afr. p. 323 ; Sharpe, Cat. B. Brit. Mus. x. p. 585.

No. 121. ♀. Redjaf, Jan. 1, 1884.

55. MACRONYX CROCEUS (Vieill.).

Macronyx croceus, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 99 ; Pelz. Verh. Wien, xxxi. 1881, pp. 145, 609 ; Sharpe, Cat. B. Brit. Mus. x. p. 626.

No. 359. ♂. Wadelai, May 19, 1884.

56. MIRAFRA APIATA (Vieill.).

Megalophonus fischeri, Reichen. J. f. O. 1883, p. 202.

Mirafra apiata, Hartl. Zool. Jahrb. ii. 1886, p. 329.

No. 132. ♀. Wadelai, Aug. 11, 1886.

This is the most northern locality yet known for this species, which ranges into South Africa and the Congo region.

57. MIRAFRA BUCOLICA, Hartl.

Mirafra bucolica, Hartl. Zool. Jahrb. ii. 1886, p. 327.

♂ ad. Tobbo, May 16, 1883.

In general colouring and size this Lark much resembles the S.-African *M. sabota*, but differs in the colouring of the quills, two pairs of the outer tail-feathers, and in the character of the feet. The following comparison between *M. bucolica* and *M. sabota* will best point out the characters which appear to me to be of specific value.

M. bucolica.—Primaries broadly edged with rufous buff, that colouring extending to the quill of the first long primary throughout the greater portion of its length ; inner webs broadly edged with rufous buff of the same shade for about half the length of the feathers. Two outer tail-feathers—outer one rufous buff with a diagonal dark portion extending from near the end of the inner web over the basal portion of the outer one, but not reaching to the outer web, and divided near the base of the quill by the buff colouring, next feather with a broad rufous-buff edge to the outer web. Feet smaller and buffer, hind claw slightly straighter and longer.

M. sabota.—Primaries partially and very narrowly edged with buffish white, not perceptible on the first long primary ; inner margin of primaries whitish but nearly obsolete. Two outer tail-feathers—outer one blackish, with only a broad edging of rufous buff over scarcely more than half the width of the outer web and round the end of the feather ; next feather with an almost obsolete pale margin to the outer web, widening slightly at the tip. Feet larger and browner, hind claw slightly more curved and shorter.

58. GALERITA MODESTA, Heugl.

Geocorypha modesta, Heugl. Orn. N.O.-Afr. p. 691, pl. 23 ; Hartl. Zool. Jahrb. ii. 1886, p. 328.

No. 150. ♀. Redjaf, Jan. 17, 1884.

No. 175. ♂. Redjaf, Feb. 2, 1884.

No. 926. ♂. Redjaf, Nov. 23, 1883.

No. 970. ♂. Redjaf, Dec. 15, 1883.

This species is new to the British Museum Collection. It belongs apparently to the genus *Galerita*, being slightly crested, and it has the bastard primary short, only just extending beyond the primary-coverts, while in plumage it much resembles *G. cristata*.

59. PYRRHULAUDA LEUCOTIS (Stanley).

Coraphites leucotis, Heugl. Orn. N.O.-Afr. p. 669.

No. 973. ♂. Dec. 16, 1883.

60. PARUS NIGER, Bonn. et Vieill.

Parus leucomelus, Pelz. Verh. Wien, xxxi. 1881, pp. 145, 609.

Parus niger, Gadow, Cat. B. Brit. Mus. viii.

No. 366. ♂. Kiri, May 22, 1884.

This is an adult male with no white edges to the tail-feathers; in this character, and indeed in all other respects, it agrees perfectly with a Damara specimen in the British Museum, so that I cannot admit that there are any constant local races of this species.

61. ÆGITHALUS PARVULUS, Heugl.

Ægithalus parvulus, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 99; id. Zool. Jahrb. ii. 1886, p. 347, pl. 12. fig. 3.

No. 370. ♂. Kiri, May 24, 1884.

This species has been well figured by Dr. Hartlaub, and is quite distinct from *Æ. capensis*, of which it is the northern representative.

62. ÆGITHALUS MUSCULUS, Hartl.

Ægithalus musculus, Hartl. J. f. O. 1882, p. 326; id. Abhandl. nat. Ver. Brem. viii. 1882, p. 198; id. Zool. Jahrb. ii. 1886, p. 347.

No. 218. ♀. Lado, Feb. 25, 1884.

Nos. 252, 283. ♂ ♀. Lado, March 1884.

Like the last, this species is new to the British Museum. It comes nearest to *Æ. caroli*, Sharpe, from which it may be readily distinguished by its hoary white throat and chest, and the abdomen only tinted with rufous buff. The forehead is uniform with the upper parts, and the sexes are similar in plumage.

63. PHILETÆRUS ARNAUDI (Bp.).

Nigrita arnaudi, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 104; Pelz. Verh. Wien, xxxi. 1881, p. 150; xxxii. 1882, p. 207.

Philetærus arnaudi, Shelley, Ibis, 1886, p. 308.

No. 953. ♀. Redjaf, Dec. 2, 1883.

Iris chestnut; bill black; legs dusky flesh-colour.

64. *AMADINA FASCIATA* (Gm.).

Sporothlastes fasciatus, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 203; Pelz. Verh. Wien, xxxii. 1882, p. 509.

Amadina fasciata, Shelley, Ibis, 1886, p. 313.

No. 976. ♂. Redjaf, Dec. 17, 1882.

65. *PYRENESTES OSTRINUS* (Vieill.).

Pyrenestes ostrinus, Shelley, Ibis, 1886, p. 314.

No. 717. ♂. Tingasi, July 4, 1883.

Iris dusky brown; bill black; legs yellowish.

This specimen is small and entirely black and red. Total length 5 inches, culmen 0.5, wing 2.65, tail 2.15, tarsus 0.7. There is a very similar specimen in the British Museum from the Gold Coast.

66. *SPERMOSPIZA RUFICAPILLA*, sp. n.

Entire head, throat, front and sides of the chest uniform scarlet; back of the neck, back, wings and tail when closed, dusky slate-colour; upper tail-coverts red, slightly darker than the head; remainder of the breast black, thickly spotted with white on the chest and barred on the abdomen and under tail-coverts. Under surface of the wings and tail dusky black, mottled or barred with white on the under wing-coverts. Iris dusky brown; bill metallic blue with the end carmine, and the cutting-edges shaded with that colour; legs dusky brown. Total length 6.2 inches, culmen 0.65, wing 2.9, tail 2.6, tarsus 0.95.

No. 752. ♀. Bellima, July 15, 1883.

This species is closely allied to *S. hæmatina* and *S. guttata*, but may be readily recognized, at least in the female, by its having the entire head uniform scarlet. In the colouring of the bill it agrees best with *S. guttata*.

67. *HYPARGUS MONTEIRI* (Hartl.).

Pytelia monteiri, Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 203.

Hypargus monteiri, Shelley, Ibis, 1886, p. 318.

♂ juv. Lado, Nov. 1, 1885.

No. 59. ♂. Tanjimoro, Sept. 23, 1883.

No. 179. Tanjimoro, Oct. 5, 1886.

The young bird from Lado differs from the adult in having the throat uniform grey, and in there being no white spots on the breast, which is chestnut fading into white on the abdomen. The under tail-coverts are broadly barred with chestnut and white.

68. *PYTELIA MELBA* (Linn.).

Pytelia melba, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 104; Pelz. Verh. Wien, xxxii. 1882, p. 509; Shelley, Ibis, 1886, p. 319.

Pytelia citorior, Pelz. Verh. Wien, xxxi. 1881, p. 614.

No. 208. ♂. Kibiro, Oct. 11, 1886.

Iris and bill red, culmen blackish ; legs flesh-brown.

In the British Museum are apparently typical specimens of both sexes of *P. cinereigula* ; the female is a female of this species and the male is *P. afra* (Gm.).

69. PYTELIA PHÆNICOPTERA, Swains.

Pytelia phœnicoptera, Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 203 ; Shelley, Ibis, 1886, p. 323.

Zonogustris erythroptera, Pelz. Verh. Wien, xxxii. 1882, p. 509.

No. 385. ♂. Lado, Aug. 16, 1884.

Iris red ; bill black ; legs pale brown.

70. LAGONOSTICTA SENEGALA (Linn.).

Lagonosticta minima, Pelz. Verh. Wien, xxxi. 1881, p. 606.

Lagonosticta senegala, Shelley, Ibis, 1886, p. 323.

No. 182. ♂. Kibero, Oct. 7, 1886.

71. LAGONOSTICTA RARA (Antin.).

Rhodopyga hypomelas, Heugl. J. f. O. 1868, p. 13, pl. 1. fig. 4.

Habropyga hypomelæna, Heugl. Orn. N.O.-Afr. p. 611.

Habropyga œnochrœa, Hartl. J. f. O. 1882, p. 322 ; id. Abhandl. nat. Ver. Brem. viii. 1882, p. 203.

Lagonosticta rara, Shelley, Ibis, 1886, p. 323.

Lagonosticta œnochrœa, Hartl. Zool. Jahrb. ii. 1886, p. 322, pl. 13. fig. 6.

Ad. Lado, Oct. 24, 1885.

No. 15. ♂. Tingasi, Aug. 9, 1883.

No. 175. ♀. Tingasi, July 3, 1883.

I have referred this species to *L. rara* (Antin.), although I have not examined a typical specimen ; but it appears to me to be undoubtedly the same as *L. œnochrœa*, Hartl., which, under the impression that it was the type I had examined, I wrongly referred to *L. rhodopareia* (Ibis, 1886, p. 324). *L. rara* has been badly figured by Heuglin under the name of *Rhodopyga hypomelas*, but the sides of the body have been painted black instead of red as described, and this appears to be the only character upon which *L. œnochrœa*, Hartl., has been separated.

The real characters for this species appear to be:—the pale patch on the lower mandible, most strongly marked in specimens 15 and 175, and the absence of white spots on the sides of the chest in adult males.

To this species should undoubtedly be referred the *L. melano-gastra* of my paper in 'The Ibis,' 1883, p. 153, from Lukoja on the Niger.

72. ESTRELDIA NONNULA, Hartl.

Astrilda nonnula, Hartl. J. f. O. 1883, p. 425 ; id. Zool. Jahrb. i. 1886, p. 321, pl. 13. fig. 5.

Habropyga tenerrima, Reichen. J. f. O. 1887, p. 213, Stanley Falls.

No. 58. ♂. Kubbi, July 1881.

No. 654. ♂. Bellima, June 21, 1883.

♂ ♀. Foda, Oct. 27, 1885.

The males have the bill black, with a red patch on the sides of the culmen and base of the lower mandible, also a patch of scarlet on the sides of the body, of much less extent than in *E. atricapilla*. It is the *Habropyga tenerrima* of Reichenow.

The female differs in having the entire bill dusky black and no red on the sides of the body. This is the *Astrilda nonnula*, Hartl.

73. ESTRELDA PALUDICOLA, Heugl.

Estrellda paludicola, Shelley, Ibis, 1886, p. 331; Hartl. Zool. Jahrb. ii. 1886, p. 321.

No. 706. ♀. Tingasi, July 3, 1883.

New to the British Museum.

74. ESTRELDA ASTRILD (Linn.).

Estrellda astrild, Shelley, Ibis, 1886, p. 322.

No. 288. ♀. Lado, March 30, 1884.

A variety entirely white, with a red band round the eye.

75. ESTRELDA RHODOPYGA, Sundev.

Estrellda rhodopyga, Shelley, Ibis, 1886, p. 333; Hartl. Zool. Jahrb. ii. 1886, p. 322.

Nos. 135, 138. ♂. 136, 139. ♀. Wadelai, Sept. 18, 1885.

No. 154. ♂. Wadelai, Oct. 6, 1885.

76. ESTRELDA CINEREA (Vieill.).

Astrilda cinerea, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 103; Pelz. Verh. Wien, xxxi. p. 614; xxxii. 1882, p. 505; Shelley, Ibis, 1886, p. 333.

Nos. 39, 40. ♂ ♀. Wadelai, Aug. 3, 1885.

77. ESTRELDA SUBFLAVA (Vieill.).

Habropyga subflava, Heugl. Orn. N.O.-Afr. p. 609.

Estrellda subflava, Shelley, Ibis, 1886, p. 334.

Nos. 235, 236, 243. ♂. Nos. 234, 242, 248, 253. ♀. Lado, March 1884.

78. ORTYGOSPIZA ATRICOLLIS (Vieill.).

Ortygospiza atricollis, Heugl. Orn. N.O.-Afr. p. 598; Shelley, Ibis, 1886, p. 338.

No. 150. ♂. Redjaf, Jan. 19, 1884.

Nos. 945, 946. ♂ ♀. Redjaf, Nov. 30, 1883.

79. VIDUA PRINCIPALIS (Linn.).

Vidua principalis, Hartl. Abhandl. nat. Ver. Brem. vii. 1881,

p. 102; Pelz. Verh. Wien, xxxi. 1881, pp. 151, 613; Sharpe, Journ. Linn. Soc., Zool. xvii. 1884, p. 426; Shelley, Ibis, 1886, p. 341.
No. 46. ♀. Tingasi, Aug. 14, 1883.

80. *COLIUSPASSER MACRURUS* (Gm.).

Penthetria macroura, Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 202; Pelz. Verh. Wien, xxxi. 1881, pp. 606, 613; xxxii. 1882, p. 508; Sharpe, Journ. Linn. Soc., Zool. xvii. 1884, p. 426.
Coliuspasser macrurus, Shelley, Ibis, 1886, p. 348.
♂ ad. Tobbo, May 19, 1883.

81. *COLIUSPASSER AXILLARIS* (Smith).

Urobrachya axillaris, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 102; viii. 1882, p. 221; Pelz. Verh. Wien, xxxi. 1881, p. 151; xxxii. 1882, p. 508.
Coliuspasser axillaris, Shelley, Ibis, 1886, p. 348.
Penthetria axillaris, Hartl. Zool. Jahrb. ii. 1886, p. 325.
No. 285. ♂. Lado, March 31, 1884.
No. 56. ♀. Lado, July 25, 1883.

82. *PYROMELANA FLAMMICEPS* (Swains.).

Pyromelana flammiceps, Pelz. Verh. Wien, xxxi. 1881, pp. 150, 613; Shelley, Ibis, 1886, p. 352.
Euplectes flammiceps, Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 201.
Nos. 34, 54, 72. ♂. Tingasi, Aug. 1883.
No. 45. Kubbi, July 1881.

83. *PYROMELANA LADOENSIS* (Reichen.).

Euplectes taha, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 103; viii. 1882, p. 201; Pelz. Verh. Wien, xxxii. 1882, p. 506.
Euplectes ladoensis, Reichen. J. f. O. 1885, p. 218; Hartl. Zool. Jahrb. ii. 1886, p. 339.
Pyromelana sticta, Shelley (nec Heugl.), Ibis, 1886, p. 354.
No. 408. ♂. Lado, Aug. 30, 1884.

84. *QUELEA ERYTHROPS* (Hartl.).

Hyphantica hæmatocephala, Heugl. Orn. N.O.-Afr. p. 545, pl. 19a.
Quelea erythrops, Shelley, Ibis, 1886, p. 356.
♂. Kibiro, June 3, 1886.

85. *QUELEA CARDINALIS* (Hartl.).

Hyphantica cardinalis, Hartl. J. f. O. 1880, p. 325; id. Abhandl. Nat. Ver. Brem. vii. 1881, p. 102; viii. 1882, p. 201; J. f. O. 1881, pl. i. figs. 1, 2; Pelz. Verh. Wien, xxxii. 1882, p. 508.
Quelea cardinalis, Shelley, Ibis, 1886, p. 357.
Nos. 25, 26, 29. ♂. Lado, July 1885.

86. QUELEA QUELEA (Linn.).

Quelea quelea, Shelley, Ibis, 1886, p. 357.

♂. Kibiro, June 5, 1886.

Forehead black, flanks and thighs striped.

The occurrence of the black-fronted *Quelea quelea* on the shores of Lake Albert Nyanza shows, in my opinion, the affinity of the fauna of this part of Africa with that of the Congo on the West Coast; but the view may be entertained that *Q. quelea* and *Q. æthiopica* are not distinct species, but only local and not positively definable forms, and this may be supported by the great similarity of their females and by the form *P. russi*, Finsch, with no black on the head, being common to both, as also are the peculiar brown and pink shaded varieties.

87. PLOCEUS MELANOTIS, Lafr.

Sycobius melanotis, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 101.

Anaplectes melanotis, Pelz. Ver. Wien, xxxi. 1881, p. 150; xxxii. 1882, p. 506; Hartl. Zool. Jahrb. ii. 1886, p. 337.

Calyphantria erythogenys, Fisch. & Reichen. J. f. O. 1884, p. 181.

Ploceus melanotis, Shelley, Ibis, 1887, p. 18.

No. 122. ♂. Redjaf, Jan. 9, 1884.

88. PLOCEUS BAGLAFECT, Vieill.

Hyphantornis guerini, Heugl. Orn. N.O.-Afr. p. 562, pl. 11. fig. 3.

Ploceus baglafect, Shelley, Ibis, 1887, p. 20.

♀. Kibiro, Oct. 8, 1886.

89. PLOCEUS NIGRICOLLIS (Vieill.).

Ploceus nigricollis, Shelley, Ibis, 1887, p. 22.

No. 678. ♂. Wadelai, June 23, 1883. Iris straw-colour; bill black; legs dusky red.

This species has previously only been recorded from the West Coast.

Its near ally *P. melanoxanthus* (Cab.) is fairly abundant on the East Coast, near Lamu and Mombas.

90. PLOCEUS OCULARIUS, Smith.

Hyphantornis crocata, Hartl. Abhandl. nat. Ver. Brem. vii. 1881.

Hyphantornis ocularius, Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 200.

Symplectes ocularius, var. *crocata*, Hartl. Zool. Jahrb. ii. 1886, p. 341, pl. 14. fig. 11.

Ploceus ocularius, Shelley, Ibis, 1887, p. 23.

Nos. 175, 176. ♂ ♀. Tanjimoro, Oct. 5, 1886.

91. *PLOCEUS CASTANOPS*, sp. n.

Male.—Head and underparts bright golden yellow, shading into chestnut on the forehead; cheeks, front of the ear-coverts, chin, and throat chestnut, shading into black in front of the eyes, and with a narrow black edging to the chin; the brow of the throat narrow almost to a point towards the lower neck; back of the neck, back, and scapulars uniform yellowish olive, slightly more yellow on the rump; wings brown, with all the feathers broadly edged with pale olive-yellow; tail olive-brown, with narrow yellowish edges to the feathers; under surface of the wings brown, the coverts pale rufous buff, with a golden shade, and the inner margins of the quills yellow. Bill black; legs reddish brown. Total length 5·6 inches, culmen 0·65, wing 2·8, tail 2, tarsus 0·9.

Female.—Crown and nape nearly uniform dusky brown; back and scapulars more buffish brown, with large dark centres to the feathers; wings, rump, and tail as in the male, but not so bright; underparts brownish buff, paler on the centre of the abdomen. Bill dark above, pale beneath. Total length 5·3 inches, culmen 0·55, wing 2·5, tail 1·8, tarsus 0·9.

In form and size this new species much resembles *P. ocularius*, but in no stage of plumage can it be confounded with that bird, as it has no black stripes through the eye, and the broad pale edges of the wing-feathers contrast strongly with the dark portion. From *P. xanthopterus* it differs in its smaller size, in the more olive colouring of the back and edges of the wing-feathers, and in the brow of the forehead.

92. *PLOCEUS VITELLINUS* (Licht.).

Hyphantornis vitellinus, Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 200.

Ploceus vitellinus, Shelley, Ibis, 1887, p. 27.

No. 156. ♂. Wadelai, Oct. 7, 1885. Iris bright yellow.

93. *PLOCEUS LUTEOLUS* (Licht.).

Hyphantornis luteola, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 100; viii. 1882, p. 200.

Sitagra luteola, Pelz. Verh. Wien, xxxi. 1881, p. 612; xxxii. 1882, p. 506.

Ploceus luteolus, Shelley, Ibis, 1887, p. 31.

Nos. 346, 347. ♂ ♀. Redjaf, May 8, 1884.

Nos. 358, 367, 368. ♀. Kiri, May 1884.

94. *PLOCEUS PELZELNI* (Hartl.).

Icteropsis crocata, Pelz. (nec Hartl.) Verh. Wien, xxxi. 1881, p. 149.

Sitagra pelzelni, Hartl. Zool. Jahrb. ii. 1886, p. 343, pl. 14. figs. 9, 10.

Four males and five females, from Wadelai (May).

In the adult of both sexes the bill is black. In the immature

the bill is dusky brown above, pale beneath. In immature specimens, two of which are indicated as males, there is no trace of black on the head.

As this species is but little known, I shall describe the male in full plumage; the female is well figured by Dr. Hartlaub (*l. c.*). Very similar to *P. luteolus*, but rather larger, and the bill considerably longer. The black of the head is very similar, only it extends slightly further back; remainder of the head, nape, and sides of the neck bright yellow, like the breast, with no olive shade; remainder of the upper parts as in *P. luteolus*.

P. pelzelni, ♂ ad. Total length 5·25 inches, culmen 0·65, wing 2·35, tail 1·8, tarsus 0·75.

P. luteolus, ♂ ad. Total length 4·7 inches, culmen 0·5, wing 2·35, tail 1·7, tarsus 0·7.

95. *PLOCEUS DIMIDIATUS* (Salvad.).

Hyphantornis dimidiata, Salvad. & Antin. Ann. Mus. Civ. Gen. 1873, p. 384, pl. 3; Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 199.

Ploceus dimidiatus, Shelley, Ibis, 1887, p. 34.

Fifteen specimens of both sexes from Wadelai, procured in June, July, and August.

Iris umber-brown.

96. *PLOCEUS ABYSSINICUS* (Gm.).

Hyphantornis habessinica, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 99.

Hyphantornis abyssinica, Pelz. Verh. Wien, xxxi. 1881, p. 612; xxxii. 1882, p. 505.

No. 265. ♂. May 22, 1884.

No. 38. ♂. Kiri, Sept. 12, 1883.

The second specimen is recorded as being in the winter plumage; it closely resembles the figure of *Textor flavirostris*, Rüpp. (Syst. Uebers. pl. 29).

97. *PASSER RUFOCINCTUS*, Fisch. & Reichen.

Passer motitensis, Heugl. (nec Smith) Orn. N.O.-Afr. p. 634.

Passer rufocinctus, Fisch. & Reichen. J. f. O. 1884, p. 55.

No. 30. ♂. Lado, April 9, 1884.

98. *SORELLA EMINI*, Hartl.

Sorella emini, Hartl. J. f. O. 1880, p. 211; J. f. O. 1881, pl. 1. figs. 3, 4; Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 104; viii. 1882, p. 201; Pelz. Verh. Wien, xxxi, 1881, p. 150; xxxii. 1882, p. 507; Fisch. J. f. O. 1885, p. 136; Hartl. Zool. Jahrb. ii. 1886, p. 340.

Passer emini, Sharpe, Cat. B. Brit. Mus. xii. p. 332 (1887).

No. 881. Lado, Nov. 2, 1883.

Nos. 204, 205. Lado, Feb. 18, 1884.

Nos. 120, 175. ♂. Redjaf, Jan. 31, 1884.

99. CRITHAGRA BARBATA, Heugl.

Crithagra barbata, Heugl. Orn. N.O.-Afr. p. 629; Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 204.

♀ ad. Tobbo, May 17, 1883.

100. FRINGILLARIA ORIENTALIS, Shelley.

Fringillaria orientalis, Shelley, P. Z. S. 1882, p. 308 (Mamboio).

No. 109. ♀. Tingasi, Aug. 1, 1883. Iris dusky, bill brown, legs pale brown.

There is a specimen of this species in the British Museum, labelled by Dr. Reichenow "*Fringillaria major*," from Leopoldville on the Congo.

101. FRINGILLARIA FORBESI, Hartl.

Fringillaria capensis, Swains. (nec Linn.) B. W. Afr. i. p. 211, pl. 18.

Fringillaria forbesi, Hartl. J. f. O. 1882, p. 324; id. Abhandl. nat. Ver. Brem. viii. p. 204.

Ad. Kuterma, May 26, 1883. Iris dusky; bill blackish, paler on the lower mandible; legs greyish horn-colour.

102. LAMPROCOLIUS SPLENDIDUS (Vieill.).

Lamprocolius splendidus, Sharpe, Journ. Linn. Soc., Zool. xvii. 1884, p. 426.

No. 135. Tingasi, Sept. 1881.

This Gaboon species was first met with in Central Africa by Mr. Bohndorff in the Niam-niam country.

103. BUPHAGA AFRICANA, Linn.

Buphaga africana, Hartl. Zool. Jahrb. ii. 1886, p. 311.

No. 189. ♀. Kibiro, Oct. 8, 1886.

104. SALPORNIS SALVADORII, Bocage.

Hylipsornis salvadorii, Bocage, Orn. Angola, p. 289, pl. 10. fig. 2.

Salpornis salvadorii, Gadow, Cat. B. Brit. Mus. viii. p. 330.

Salpornis emini, Hartl. P. Z. S. 1884, p. 415, pl. 37; id. Zool. Jahrb. ii. 1886, p. 312.

No. 539. ♂. Tobbo, May 22, 1884.

This is, no doubt, the *S. emini*, Hartl., but I can detect no character by which it can be separated from *S. salvadorii* after comparing it with three specimens of the latter, two from Benguela and one from Mashoona land. The British Museum, since the acquisition of Mr. Hume's valuable collection, contains a large series of *S. spilonata*, from which the present species is barely separable, the Asiatic form having the two centre tail-feathers generally much paler, and the throat and sides of the head of a rather purer white.

105. NECTARINIA PULCHELLA (Linn.).

Nectarinia pulchella, Shelley, Mon. Sun-birds, p. 9, pl. 4; Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 107; Pelz. Verh. Wien, xxxi. 1881, p. 609; xxxii. 1882, p. 501.

No. 340. Lado, April 23, 1884. A partially white variety.

106. CINNYRIS CUPREA (Shaw).

Cinnyris cuprea, Shelley, Mon. Sun-birds, p. 191, pl. 58; Sharpe, Journ. Linn. Soc., Zool. xvii. 1884, p. 428.

Nectarinia cuprea, Pelz. Verh. Wien, xxxi. 1881, p. 609; Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 108; viii. 1882, p. 205.

No. 584. ♂. Mundri, June 1, 1883.

107. CINNYRIS SUPERBA (Shaw).

Cinnyris superba, Shelley, Mon. Sun-birds, p. 197, pl. 60; id. Sharpe, Journ. Linn. Soc., Zool. xvii. 1884, p. 428.

No. 751. ♂. Bellima, July 15, 1883.

This species was only known from the west coast, until it was recently procured in the Niam-niam country by Mr. Bohndorff.

108. CINNYRIS ERYTHROCERIA (Heugl.).

Cinnyris erythrocerius, Shelley, Mon. Sun-birds, p. 209, pl. 64. fig. 2.

Nectarinia erythroceria, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 108; Pelz. Verh. Wien, xxxi. 1881, p. 144.

No. 68. ♂. Wadelai, Aug. 9, 1883.

109. CINNYRIS CHLOROPYGIA (Jard.).

Cinnyris chloropygius, Shelley, Mon. Sun-birds, p. 257, pl. 79.

No. 736. ♂. Tingasi, July 7, 1883.

Previously only known from the west coast.

110. CINNYRIS ACIK (Antin.).

Cinnyris acik, Shelley, Mon. Sun-birds, p. 295, pl. 82; Sharpe, Journ. Linn. Soc., Zool. vii. p. 428.

Nectarinia azic, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 108; viii. 1882, p. 206.

Nectarinia acik, Pelz. Verh. Wien, xxxi. 1881, pp. 143, 609.

No. 14. ♀. Tingasi, Aug. 10, 1883.

111. CINNYRIS OBSCURA (Jard.).

Cinnyris obscurus, Shelley, Mon. Sun-birds, p. 391, pl. 92.

No. 20, ♂. Tingasi, Oct. 23, 1883.

Formerly only known from West Africa.

112. CYNNYRIS VERTICALIS (Lath.).

Cinnyris verticalis, Shelley, Mon. Sun-birds, p. 301, pl. 97.

Nectarinia cyanocephala, Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 206.

No. 718. ♂. Tingasi, July 4, 1883.

Nos. 79, 808. ♀. Tomaja, Aug. 1883.

♀ ♂. Foda, Nov. 1, 1885.

The specimens show that Latham described the female as *Certhia verticalis*, Shaw, the male as *Certhia cyanocephala*.

113. ANTHREPTES LONGUEMARI (Less.).

Anthreptes longuemarii, Shelley, Mon. Sun-birds, p. 335, pl. 108.

Anthreptes orientalis, Hartl. J. f. O. 1880, p. 213; id. Abhandl. nat. Ver. Brem. vii. 1881, p. 109; viii. 1882, p. 205; Pelz. Verh. Wien, xxxi. 1881, p. 609; xxxii. 1882, p. 501; Sharpe, Journ. Linn. Soc., Zool. xvii. 1884, p. 429.

No. 765. ♂. Bongereh, July 22, 1883.

The British Museum contains eight specimens, which I have compared with two of my own from Lado. My adult male has the lesser wing-coverts brilliant metallic green, which I cannot at all match in any of the other specimens, although a trace of green may be observed in all of them, often so slight as to be easily overlooked. It appears that in my monograph of this family (*l. c.*) I rightly depicted the adult male and female. The immature male, as shown by Emin Pasha's specimen in this collection, has a rather bright yellow abdomen, and has assumed the metallic purple colouring of the head and back before getting the metallic throat or discarding the white eyebrow. This proves, I presume, that Mr. Bohndorff's second specimen from Sassa was a young male, and not a female as Mr. Sharpe records it.

With regard to size, the following measurements of the culmen and wings of ten specimens will show that no importance can be attached to them:—

Gambia, ♂ ♀ : culmen 0·6, 0·65; wing 2·95, 2·6.

Cassamane, ♂ ♀ ♀ : culmen 0·65; wing 2·95, 2·65, 2·55.

Sassa, ♂ ad. and probably ♂ juv. : culmen 0·6, 0·65; wing 2·9, 2·65.

Bongereh, ♂ juv. : culmen 0·6; wing 2·75.

Lado, ♀ ♂ : culmen 0·6, 0·55; wing 2·6, 2·4.

114. ANTHREPTES TEPHROLÆMA (Jard. & Selby).

Anthreptes tephrolæma, Shelley, Mon. Sun-birds, p. 333, pl. 72. fig 2.

Nos. 24, 27. ♂. Tingasi, Oct. 1883.

This is another of the species hitherto only known from the west coast.

115. ANTHREPTES HYPODILA (Fraser).

Anthreptes hypodila, Shelley, Mon. Sun-birds, p. 345, pl. 111. figs. 1, 2.

No. 272. ♂. Lado, Oct. 23, 1885.

No. 30. ♂. Tingasi, July 15, 1883.

These birds agree perfectly with the West-African specimens, and have no metallic green on the outer webs of their primaries and greater wing-coverts.

116. *COTILE CINCTA*.

Cotile cincta, Heugl. Orn. N.O.-Afr. p. 164; Sharpe, Cat. B. Brit. Mus. x. p. 101.

No. 155. ♀. Wadelai, Oct. 7, 1885.

No. 64. ♀. Wadelai, Feb. 9, 1886.

117. *HIRUNDO RUSTICA*, Linn.

Hirundo rustica, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 109; Sharpe, Cat. B. Brit. Mus. x. p. 128.

♀. Lado, Oct. 30, 1885.

No. 145. ♂. Wadelai, Sept. 30, 1885.

118. *HIRUNDO SMITHI*, Leach.

Hirundo filifera, Heugl. Orn. N.O.-Afr. p. 155.

Hirundo smithi, Sharpe, Cat. B. Brit. Mus. x. p. 150.

Nos. 115, 124. Wadelai, Sept. 1885.

119. *HIRUNDO SEMIRUFA*, Sundev.

Hirundo semirufa and *H. gordonii*, Sharpe, Cat. B. Brit. Mus. x. pp. 167, 168.

♀. Wadelai, Oct. 12, 1885.

Total length 8.2 inches, wing 4.8. *H. semirufa* from South Africa is said to be slightly larger than *H. gordonii* from West Africa, but I believe that the distinctness of these races cannot be maintained.

120. *PSALIDOPROCNE ALBICEPS*, Sclat.

Psalidoprocne albiceps, Sclat. P. Z. S. 1864, p. 108, pl. xiv.; Sharpe, Cat. B. Brit. Mus. x. p. 206.

♂. Wadelai, June 28, 1885.

♀. Wadelai, July 5, 1885.

No. 116. ♂ juv. Wadelai, Sept. 12, 1885.

This is only the second time this interesting species has been sent home. The former specimen, the type, was received in spirits from Uzinza, where it was procured by the expedition of Speke and Grant.

II. PICARIÆ.

121. *COSMETORNIS VEXILLARIUS* (Gould).

Cosmetornis vexillarius, Sclat. Ibis, 1864, p. 115, pl. 2; Sharpe, Jour. Linn. Soc., Zool. vii. 1884, p. 434.

Nos. 700, 701. ♂. Tingasi, July 2, 1883.

122. *DENDROPICUS LAFRESNAYII*, Malh.

Dendropicus lafresnayii, Hargitt, Ibis, 1883, p. 425.

No. 168. ♂. Tobbo, May 16, 1883.

This species was previously known only from the west coast.

123. CAMPOTHERA NUBICA (Gm.).

Picus nubicus, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 109 ;
Pelz. Verh. Wien, 1882, p. 510.

Campothera nubica, Hargitt, Ibis, 1883, p. 451.

No. 148. ♀ juv. Redjaf, Jan. 17, 1884.

124. CAMPOTHERA MACULOSA (Valenc.).

Campothera maculosa, Hargitt, Ibis, 1883, p. 475.

No. 11. ♀. Tingasi, July 28, 1883.

Formerly only known from the west coast. I have compared it with Gold-Coast specimens in the British Museum and find that it agrees perfectly.

125. ISPIDINA PICTA (Bodd.).

Ispidina picta, Sharpe, Mon. Alcid. p. 141, pl. 51 ; Pelz. Verh. Wien, xxxi. 1881, p. 143 ; Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 207 ; Sharpe, Journ. Linn. Soc., Zool. xvii. 1884, p. 435.

No. 119. ♀. Wadelai, July 16, 1886.

126. LOPHOCEROS FASCIATUS (Shaw).

Tockus fasciatus, Elliot, Mon. Bucerot. pl. 50 ; Sharpe, Journ. Linn. Soc., Zool. xvii. p. 435.

Lophoceros fasciatus, Shelley, Ibis, 1888, p. 59.

No. 1. ♀. Tingasi, Aug. 22, 1883.

No. 111. ♀. „ Sept. 13, 1883.

No. 112. ♀. „ July 16, 1883.

No. 62. Kubbi, July 1881.

127. POGONORHYNCHUS BIDENTATUS (Shaw).

Pogonorhynchus bidentatus, Marshall, Mon. Capit. p. 11, pl. 6 ; Sharpe, Journ. Linn. Soc., Zool. xvii. 1884, p. 432.

Pogonias bidentatus, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 112.

Nos. 69, 70. ♂ ♀. Umparu, Feb. 16, 1885.

128. POGONORHYNCHUS LEUCOCEPHALUS (Defil.).

Pogonorhynchus leucocephalus, Marshall, Mon. Capit. p. 15, pl. 8 ; Pelz. Verh. Wien, xxxi. 1881, p. 151 ; xxxii. 1882, p. 510 ; Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 209.

Pogonias leucocephalus, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 112.

No. 352. ♀. Redjaf, May 11, 1884.

129. POGONORHYNCHUS DIADEMATUS (Heugl.).

Pogonorhynchus diadematus, Marshall, Mon. Cap. p. 29, pl. 14 ; Pelz. Verh. Wien, xxxi, 1881, p. 615 ; xxxii. 1882, p. 510.

Pogonias diadematus, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 112.

No. 237. ♂. Lado, March 3, 1884.

130. *POGONORHYNCHUS LACRYMOSUS* (Cab.).

Tricolæma lacrymosa, Cab. J. f. O. 1878, pp. 205, 240.

Nos. 23, 24. ♂. Wadelai, July 26, 1885.

Iris orange-yellow; bill black; legs slate-colour.

No. 18. ♀. Wadelai, July 22, 1885.

The sexes are similar in plumage, and the black pearl-shaped marks on the sides of the chest are equally well defined in all the specimens.

131. *BARBATULA CHRYSOCOMA* (Temm.).

Barbatula chrysocoma, Marshall, Mon. Cap. p. 121, pl. 49. fig. 2; Pelz. Verh. Wien, xxxi. 1881, p. 153; Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 209.

No. 198. ♀. Kibiro, Oct. 1886.

132. *BARBATULA LEUCOLÆMA*, Verr.

Barbatula leucolæma, Marshall, Mon. Cap. p. 129, pl. 51. fig. 2.

Nos. 702, 809, 810, 811, 813. Tomaja, Aug. 1883.

Formerly only known from the west coast.

133. *CUCULUS GULARIS*, Steph.

Cuculus gularis, Sharpe, P. Z. S. 1873, p. 583; Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 113; Sharpe, Journ. Liun. Soc., Zool. xvii. 1884, p. 432.

No. 305. ♂. Lado, April 10, 1884.

Iris yellow; bill orange-yellow with the end black; gape orange; eyelids and feet yellow.

134. *CUCULUS CLAMOSUS*, Lath.

Cuculus clamosus, Sharpe, P. Z. S. 1873, p. 587; Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 210; Sharpe, Journ. Liun. Soc., Zool. xviii. 1884, p. 432.

No. 705. ♀ juv. Tomaya, Aug. 7, 1883.

135. *CHRYSOCOCCYX CUPREUS* (Bodd.).

Cuculus cupreus, Sharpe, P. Z. S. 1873, p. 581.

Chalcites cupreus, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 113; viii. 1882, p. 221.

No. 353. ♂. Redjaf, May 11, 1884.

No. 369. ♀. Kiri, May 24, 1884.

136. *PACHYCOCCYX VALIDUS* (Fisch. & Reichen.).

Cuculus validus, Fisch. & Reichen. J. f. O. 1879, p. 341, Muniune.

Pachycoccyx validus, Cab. J. f. O. 1882, p. 230.

No. 107, ♀. Tangasi, Aug. 2, 1883.

As I only recognized this immature bird by the short note on its plumage given by Dr. Cabanis, *l. c.*, it may be useful to take this opportunity of describing the interesting specimen before me.

Above blackish brown with a faint purple gloss; the crown, back

of the neck, middle of the rump, upper tail-coverts, some of the lesser wing-coverts, all of the median and greater coverts and the quills broadly tipped with buffish white; forehead, nape, and sides of the head almost white; the latter washed on the lores, cheeks, and ear-coverts with dusky grey. Tail with some five or six obsoletely paler bands, the base of the one near the end well defined by triangular white marks on the sides of the feathers, the other bands only indicated by smaller white marks confined to their inner webs, base of the tail white. Underparts whitish buff shaded with rufous buff on the sides of the body, thighs, and under tail-coverts, the latter have two broad black bars across them; under surface of the wing-coverts rufous buff; quills dusky brown, fading into white towards the bases of their inner webs, all the quills broadly tipped with white. Total length 15·2 inches, culmen 0·9, wing 9, tail 8·3, tarsus 1.

There is a nestling of this species in the British Museum labelled "W. Africa, DuChailu," from which I conclude that it is a Central-African species occasionally extending to the coast both in the east and west.

137. *INDICATOR MAJOR*, Steph.

Indicator major, Sharpe, in Dawson Rowley's Orn. Miscell. i. p. 204; Hartl. Zool. Jahrb. ii. 1886, p. 311.

No. 131. ♀. Wadelai, Sept. 15, 1885.

Iris umber-brown; bare skin on head leaden grey; bill black; legs dusky.

138. *INDICATOR EMINI*, sp. n. (Plate III.)

No. 675. ♂. Wadelai, June 23, 1883.

Bill slight. Upper parts uniform dusky brown, very slightly shaded with olive on the crown and back of the neck, slightly more so with deep yellow on the back and scapulars, increasing in amount of yellow on the rump, where a few feathers show white ends; wings dark brown; the coverts shading into olive-yellow on their edges, the quills edged with deep yellow; tail, four centre feathers entirely brown, remainder white, with the base only of the next pair to the four centre feathers dusky brown. Underparts, including the under tail-coverts, ashy brown, fading into white on the centre and sides of the abdomen behind the thighs. Total length 4·6 inches, culmen 0·3, wing 2·6, tail 2·1, tarsus 0·5.

In its slight bill this species approaches nearest to *I. major*, and by that character alone it may be readily distinguished from all the other known species of Honey-Guides. It is very distinct from any other member of the genus, and I am pleased to be able to name such a striking species after its celebrated discoverer.

139. *MUSOPHAGA ROSSÆ*, Gould.

Musophaga rossæ, Sharpe, Journ. Linn. Soc., Zool. xvii. 1884, p. 433; Schalow, J. f. O. 1886, p. 14.

No. 12. ♀. Tingasi, Aug. 10, 1883.

This appears to be essentially an inland African species, for it has been procured by Mr. Bohndorff at Semmi in Niam-niam, and by Dr. Böhm in Marungu on the western side of Lake Tanyanika. It is also known from the interior of Angola.

140. *CORYTHAIX LEUCOLOPHUS*, Heugl.

Corythaix leucolophus, Heugl. Orn. N.O.-Afr. p. 703, pl. 24; Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 210; Sharpe, Journ. Linn. Soc., Zool. vii. 1884, p. 433; Schalow, J. f. O. 1886, p. 20.

No. 828. ♀. Kabajerdi, Aug. 26, 1883.

Iris brown; eyelids pale blood-red; bill yellow, with a greenish base; legs black.

141. *CORYTHEOLA CRISTATA* (Vieill.).

Turacus giganteus, Sharpe, Journ. Linn. Soc., Zool. xvii. 1884, p. 433.

Corytheola cristata, Schalow, J. f. O. 1886, p. 55.

Nos. 144, 145, 146, 147. Ad. Tingasi, Sept. 1881.

Iris red; bill, basal half yellow, end half red; feet dusky. The red has entirely faded from the bills.

142. *EURYSTOMUS AFER* (Lath.).

Eurystomus afer, Sharpe, Ibis, 1871, p. 274; Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 110; Pelz. Verh. Wien, xxxi. 1881, p. 143; xxxii. 1882, p. 500; Sharpe, Journ. Linn. Soc., Zool. xvii. 1884, p. 434.

No. 110. ♀. Tingasi, July 16, 1883.

III. PSITTACI.

143. *PSITTACUS ERITHACUS*, Linn.

Psittacus erithacus, Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 211.

Psittacus rubrovarius, Rochebrune, Faun. Sénégal., Ois. p. 84, pl. 10.

No. 158. ♀. Mabode Land, June 1884.

Iris pale yellow; bill black; bare skin on sides of head pearly grey.

This is a peculiar red mottled variety of the Grey Parrot, probably due to some particular food to which the bird becomes partial; for the irregularity of the red marking cannot, I maintain, be of specific value. M. Rochebrune regards it as a good species, and applies to it Brisson's very characteristic name of *rubrovarius*. He also gives a good figure, which exactly represents the specimen before me.

Emin Pasha writes concerning it to the following effect:—"In habits it is said not to differ from the grey form. It was given to me by one of the chiefs in Monbuttu, where it is known by the name 'Curingu,' and the common grey birds by that of 'Makue.'" He also gives some interesting notes on the migrations of the Grey

Parrot; this species, to the east of Lake Albert Nyanza, ranges to about 2° N. lat., and to the west of that lake about a degree further north, being only met with as a straggler in the northern part of Monbuttu. Captain Casati informed him that in Unyoro the Grey Parrot passed in flocks eastward from the 24th to the 28th July, 1886, and repassed westward across the Lake from the 6th to the 12th of March, 1887.

144. *AGAPORNIS PULLARIA* (Linn.).

Agapornis pullaria, Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 212.

Nos. 47, 48. Tingasi, July 30, 1883.

IV. COLUMBÆ.

145. *TRERON CALVUS* (Temm.).

Treron nudirostris, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 117.

Treron calvus, Shelley, Ibis, 1883, p. 267; Sharpe, Journ. Linn. Soc., Zool. xvii. 1884, p. 436; Hartl. Zool. Jahrb. ii. 1886, p. 329.

No. 816. ♂. Tomaya, Aug. 14, 1883.

146. *TURTUR SEMITORQUATUS*, Rüpp.

Turtur semitorquatus, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 117; Shelley, Ibis, 1883, p. 303.

One specimen, without label.

V. ACCIPITRES.

147. *POLYBOROIDES TYPICUS*, Smith.

Polyboroides typicus, Sharpe, Cat. B. Brit. Mus. i. p. 48; id. Journ. Linn. Soc., Zool. xvii. 1884, p. 437.

No. 227. ♂. Lado, Feb. 26, 1886.

Iris dusky brown; bill horn-blue, with the basal half white; cere and feet yellow; skin round the eyes and the lores rough and yellow.

This is an immature specimen in pale brown plumage.

148. *CIRCUS ÆRUGINOSUS* (Linn.).

Circus æruginosus, Heugl. Orn. N.O.-Afr. p. 102; Sharpe, Cat. B. Brit. Mus. i. p. 69.

No. 274. ♀. Lado, March 19, 1884.

149. *MELIERAX POLYZONUS* (Rüpp.).

Melierax polyzonus, Sharpe, Cat. B. Brit. Mus. i. p. 88; Pelz. Verh. Wien, xxxi. 1881, pp. 143, 607; xxxii. 1882, p. 500; Sharpe, Journ. Linn. Soc., Zool. xvii. 1884, p. 437.

No. 277. ♂ juv. Lado, March 23, 1884.

150. MELIERAX NIGER (Bonn. et Vieill.).

Melierax niger, Sharpe, Cat. B. Brit. Mus. i. p. 91.

Nisus niger, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 116.

No. 90. ♀. Gondokoro, Nov. 15, 1883.

Iris scarlet; cere, base of mandible, and feet cinnabar-red; bill black.

151. CIRCAËTUS CINERASCENS, Müll.

Circaetus cinerascens, Heugl. Orn. N.O.-Afr. p. 86, pl. 3; Sharpe, Cat. B. Brit. Mus. i. p. 285; Hartl. Zool. Jahrb. ii. 1886, p. 306.

No. 827. ♀. Kabajeudi, Aug. 20, 1883.

Iris pale yellow; bill bluish yellow; base, cere, and legs yellow.

152. BUTASTUR RUFIPENNIS (Sund.).

Butastur rufipennis, Sharpe, Cat. B. Brit. Mus. i. p. 299; id. Journ. Linn. Soc., Zool. xvii. 1884, p. 437.

Poliornis rufipennis, Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 213.

Nos. 269, 270. ♂.

No. 282. ♀. Lado, March 1884.

No. 118. Redjaf, Jan. 8, 1884.

153. MILVUS MIGRANS (Bodd.).

Milvus ætolius, Heugl. Orn. N.O.-Afr. p. 98.

Milvus korshun, Sharpe, Cat. B. Brit. Mus. i. p. 322.

No. 314. ♂. Lado, April 15, 1884.

154. FALCO CUVIERI, Smith.

Falco cuvieri, Sharpe, Cat. B. Brit. Mus. i. p. 400.

No. 337. ♀. Lado, April 22, 1884.

155. FALCO RUFICOLLIS, Swains.

Falco ruficollis, Sharpe, Cat. B. Brit. Mus. i. p. 404; Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 115, viii. 1882, p. 221; Pelz.

Verh. Wien, xxxi. 1881, p. 606, xxxii. 1882, p. 499; Sharpe, Journ. Linn. Soc., Zool. xvii. 1884, p. 438.

No. 266. ♀ juv. Lado, March 13, 1884.

156. TINNUNCULUS TINNUNCULUS (Linn.).

Cerchneis tinnunculus, Sharpe, Cat. B. Brit. Mus. i. p. 425; id. Journ. Linn. Soc., Zool. xvii. 1884, p. 438.

Tinnunculus alaudarius, Pelz. Verh. Wein, xxxi. 1881, pp. 605, 607, xxxii. 1882, p. 500.

Nos. 961, 962. ♂ ♀. Redjaf, Dec. 12, 1883.

No. 171. ♀. Redjaf, Jan. 29, 1884.

157. TINNUNCULUS ALOPEX (Heugl.).

Falco alopex, Heugl. Orn. N.O.-Afr. p. 41; Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 115.

Cerchneis alopeax, Sharpe, Cat. B. Brit. Mus. i. p. 432, pl. 14. fig. 1, ♀.

No. 952. Redjaf, Dec. 2, 1883.

No. 167. Redjaf, Jan. 28, 1884.

The male is slightly darker and more strongly streaked.

158. DISSODECTES ARDESIACUS (Bonn. & Vieill.).

Cerchneis ardesiaca, Sharpe, Cat. B. Brit. Mus. i. p. 446; id. Journ. Linn. Soc., Zool. xvii. p. 438.

Falco ardesiacus, Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 15; Pelz. Verh. Wien, xxxi. 1881, pp. 143, 606.

No. 290. ♀. Lado, April 2, 1884.

159. BUBO CINERASCENS, Guér.

Bubo cinerascens, Sharpe, Cat. B. Brit. Mus. ii. p. 32; Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 215; Sharpe, Journ. Linn. Soc., Zool. xvii. 1884, p. 438.

No. 172. ♀. Redjaf, Jan. 30, 1884.

Iris dusky; bill blackish; feet beneath the feathers dusky.

Compared with the S.-African *B. maculosus* (Sharpe, Cat. ii. p. 13), I do not see much difference in plumage, and do not think much of the feathering of the toes; but in *B. maculosus* the iris is yellow, which apparently settles the question of the difference in the two species.

160. SCOPS CAPENSIS, Smith.

Scops zorca africana, Heugl. Orn. N.O.-Afr. p. 117.

Scops capensis, Sharpe, Cat. B. Brit. Mus. ii. p. 52, pl. 3. fig. 1.

Nos. 37, 38. Wadelai, Aug. 2, 1885.

Iris sulphur-yellow; bill horn-colour; feet dusky.

This specimen certainly belongs to the *S. capensis* as understood by Mr. Sharpe, and those collected by Mr. Bohndorff (Sharpe, Journ. Linn. Soc., Zool. xvii. 1884, p. 439) in the Niam-niam country to *S. giu*. To say that they are really specifically distinct requires more research than I have given to the subject.

161. GLAUCIDIUM PERLATUM (Vieill.).

Glaucidium perlatum, Sharpe, Cat. B. Brit. Mus. i. p. 209; id. Journ. Linn. Soc., Zool. xvii. 1884, p. 439.

Athene perlata, Pelz. Verh. Wien, xxxi. 1881, p. 143; Hartl. Abhandl. nat. Verh. Brem. viii. 1882, p. 215.

No. 364. ♂. Kiri, May 21, 1884.

b. ♀. [No locality.] March 16, 1883.

162. STRIX FLAMMEA, Linn.

Strix flammea, Sharpe, Cat. B. Brit. Mus. ii. p. 291; id. Journ. Linn. Soc., Zool. xvii. 1884, p. 440.

No. 63. Tingasi, May 1882.

Small; wing only 9.4 inches, but of the ordinary typical colouring.

VI. PTEROCLETES.

163. *PTEROCLES TRICINCTUS*, Swains.

Pterocles tricinctus, Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 216.

Nos. 296, 299, 306. ♂ ♀ ad.; ♂ juv. Lado, April 1884.

Skin round the eye and feet yellow. ♂ ad., bill orange; ♂ juv., bill orange, tipped with black; ♀, bill dusky black, fading into orange at the base.

VII. GALLINÆ.

164. *NUMIDA PTILORHYNCHA*, Licht.

Numida ptilorhyncha, Rüpp. Syst. Uebers. p. 102, pl. 29; Hartl. Abhandl. nat. Ver. Brem. viii. 1882, p. 116.

Nos. 114, 115. ♀. Tingasi, Aug. 1883.

165. *FRANCOLINUS ICTERORHYNCHUS*, Heugl.

Francolinus icterorhynchus, Heugl. Orn. N.O.-Afr. p. 894, pl. 29; Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 118.

No. 113. ♂. Tingasi, Aug. 20, 1883.

No. 131, 134. ♂ ♀. Tingasi, Sept. 1881.

Iris and legs yellow; bill yellow, with the culmen black.

166. *FRANCOLINUS GRANTI*, Hartl.

Francolinus granti, Hartl. P. Z. S. 1865, p. 665, pl. 39. fig. 1.

Francolinus shoanus, Heugl. Orn. N.O.-Afr. p. 891, pl. 29. fig. 2.

Francolinus pileatus, Hartl. (nec Smith), Abhandl. nat. Ver. Brem. vii. 1881, p. 118.

Francolinus ochrogaster, Hartl. J. f. O. 1882, p. 327; id. Abhandl. nat. Ver. Brem. viii. 1882, p. 218.

No. 256. ♀. Lado, March 1884.

Nos. 298, 303. ♂ ♀. Lado, April 1884.

Iris brown; legs blood-red; bill blackish.

VIII. GRALLATORES.

167. *PLATALEA TENUIROSTRIS*, Temm.

Platalea tenuirostris, F. & H. Vög. Ostaf. p. 718; Heugl. Orn. N.O.-Afr. p. 1126.

No. 262. ♂ juv. Lado, March 12, 1884.

168. *OTIS MELANOGASTER*, Rüpp.

Otis melanogaster, Heugl. Orn. N.O.-Afr. p. 951.

No. 375. ♀. Redjaf, June 2, 1884.

169. *ÆDICNEMUS SENEGALENSIS*, Swains.

Ædicnemus inornatus, Heugl. Orn. N.O.-Afr. p. 989; Hartl. Abhandl. nat. Ver. Brem. vii. 1881, p. 120; Pelz. Verh. Wien, xxxi. 1881, p. 616.

No. 268. ♀. Lado, March 15, 1884.

170. *ÆDICNEMUS AFFINIS*, Rüpp.*Ædicnemus affinis*, Heugl. Orn. N.O.-Afr. p. 990.

No. 310. ♀. April 14, 1884.

171. *HOPLOPTERUS SPINOSUS* (Linn.).*Hoplopterus spinosus*, Sharpe, Journ. Linn. Soc., Zool. xvii. p. 441 ; Hartl. Zool. Jahrb. ii. 1886, p. 332.

No. 852. ♀. Lado, Oct. 5, 1883.

172. *ÆGIALITIS TRICOLLARIS* (Vieill.).*Charadrius tricollaris*, Heugl. Orn. N.O.-Afr. p. 1027, pl. 34. fig. 5.

Nos. 174, 182. ♂ ♀. Kibiro, June 1886.

173. *ÆGIALITIS MINOR* (Meyer & Wolf).*Charadrius fluviatilis*, Heugl. Orn. N.O.-Afr. p. 1029 ; Pelz. Verh. Wien, 1881, p. 155.

No. 297. ♂. Lado, April 8, 1884.

174. *ÆGIALITIS PECUARIUS* (Temm.).*Charadrius pecuarius*, Heugl. Orn. N.O.-Afr. p. 1033, pl. 34. fig. 7.

Nos. 296, 297. ♂ ♀. Kibiro, June 1886.

175. *ÆGIALITIS ASIATICUS* (Pall.).*Charadrius damarensis*, Heugl. Orn. N.O.-Afr. p. 1018.*Eudromias asiaticus*, Pelz. Verh. Wien, 1881, p. 155.

Nos. 284, 285. ♂. Lado, March 30, 1884.

176. *GLAREOLA EMINI*, sp. n.

♀. Lado, Oct. 18, 1884. Iris umber-brown ; culmen and end of bill black, base of bill and legs vermilion.

This species is closely allied to *G. megapoda*, Gray, and *G. nuchalis*, Gray. From the former it differs in having the nuchal collar white instead of chestnut-buff, from the latter in being much larger and in not having any white on the outer webs of the secondaries.*G. emini*: total length 7·9 inches, wing 6·1, tail 2·8, tarsus 0·8.*G. nuchalis*: total length 5·6 inches, wing 5·5, tail 2·4, tarsus 0·8.I have compared the specimen from Lado with three adults and an immature of *G. megapoda* and with the type of *G. nuchalis*.177. *CORYTHURA CINNAMOMEA* (Less.).*Corythura cinnamomea*, Sharpe, Journ. Linn. Soc., Zool. xvii. 1884, p. 441.

No. 710. Tingasi, July 3, 1883.

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IX. NATATORES.

178. *PLOTUS LEVAILLANTI*, Licht.*Plotus levaillanti*, Heugl. Orn. N.O.-Afr. p. 1475; Pelz. Verh. Wien, xxxi. 1881, pp. 606, 618.

No. 844. ♀. Lado, Sept. 29, 1883.

179. *QUERQUEDULA HARTLAUBI*, Cass.*Querquedula hartlaubi*, Oust. Bull. N. Arch. Mus. Paris, 1879, pl. 6.

No. 4. ♂. Tingasi, July 20, 1883.

Iris yellowish brown; bill black, with a broad subterminal yellow band; legs brown.

3. Report on a Collection of Reptiles and Batrachians sent by Emin Pasha from Monbuttu, Upper Congo. By Dr. A. GÜNTHER, F.R.S.

[Received January 10, 1888.]

The specimens, 27 in number, belong to the following species:—

TORTOISES.

- 1.
- PELOMEDUSA SUBRUF*
- A, Lac.

LIZARDS.

2. *VARANUS NILÓTICUS*, L.—Two young specimens.
 3. *HEMIDACTYLUS BROOKII*, Gray.
 4. *LYGODACTYLUS GUTTURALIS*, Bocage.

5. *CHAMÆLEON SENEGALENSIS*, var. *LÆVIGATA*, Gray.—Three specimens. Although I adopt Mr. Boulenger's view that *C. lævigatus* of Gray should not be specifically distinguished from *C. senegalensis*, still the former may be readily recognized by its conspicuously finer granulation of the skin, and especially the smaller size of the scutella of the side of the head. The type of *C. lævigatus* came from the Soudan; and the three specimens sent by Emin Pasha agree in the characters mentioned with this geographically not very remote form of *Chamæleon*.

SNAKES.

6. *TYPHLOPS ESCHRICHTII*, Schleg.—Three specimens.
 7. *TYPHLOPS LIBERIENSIS*, Hallow.—Two specimens.